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NOTICE OF ALLOWANCE AND FEE(S) DUE

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11/14/2008

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C. P.O. BOX 398 AUSTIN, TX 78767-0398 EXAMINER

NGUYEN, THANH T

ART UNIT PAPER NUMBER

2444

DATE MAILED: 11/14/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.

10/701,017 11/03/2003 Siddhartha Nag 6057-44003 5830

TITLE OF INVENTION: END-TO-END SERVICE QUALITY FOR LATENCY-INTENSIVE INTERNET PROTOCOL (IP) APPLICATIONS IN A HETEROGENEOUS, MULTI-VENDOR ENVIRONMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	02/17/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includir ed below or directed oth	ng the Patent, a nerwise in Bloc	dvance on k 1, by (a	rders and notification a) specifying a new o	of m	naintenance fees wil pondence address; a	ll be n ind/or	nailed to the current (b) indicating a sepa	correspon rate "FEE	idence address as E ADDRESS" for
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MEYERTONS P.O. BOX 398 AUSTIN, TX 78	7590 11/14 5, HOOD, KIVLIN 8767-0398		T & G(OETZEL, P.C.	I her State addre trans	Certice by certify that this es Postal Service with essed to the Mail smitted to the USPTO	ficate Fee(s th suff Stop I O (571	of Mailing or Transi) Transmittal is being icient postage for firs SSUE FEE address) 273-2885, on the da	nission deposited t class ma above, or te indicat	I with the United til in an envelope being facsimile ted below.
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE	DUE	PUBLICATION FEE I	DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	Ι	DATE DUE
nonprovisional	YES	\$755		\$300	\$0			\$1055	C)2/17/2009
EXAM	INER	ART UN	ΙΤ	CLASS-SUBCLAS	s					
NGUYEN,	THANH T	2444		709-223000						
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	ND RESIDENCE DATA ess an assignee is identi h in 37 CFR 3.11. Comp	" Indication for ned. Use of a Cu A TO BE PRIN' ified below, no	m stomer FED ON Tassignee	or agents OR, alte (2) the name of a registered attorney 2 registered paten listed, no name with the PATENT (print data will appear on the state of	single y or a t attor ill be p or typ the pa	e firm (having as a regent) and the names meys or agents. If no printed. e) tent. If an assigned assignment.	nembe s of up o name	er a 2er a 2er is 3entified below, the do	cument h	nas been filed for
Please check the appropr	iate assignee category or	categories (wil	l not be pr	rinted on the patent):		Individual 🖵 Corp	poratio	on or other private gro	up entity	Government
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10/701,017	11/03/2003 Siddhartha Nag		6057-44003	5830		
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MEYERTONS, I	HOOD, KIVLIN, KO	NGUYEN, THANH T				
P.O. BOX 398			ART UNIT	PAPER NUMBER		
AUSTIN, TX 78767-0398			2444			
			DATE MAILED: 11/14/2008			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/701 017			
Notice of Allowability	10/701,017 Examiner	NAG, SIDDHARTHA Art Unit		
•				
	Thanh Tammy Nguyen	2444		
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t	plication. If not included n will be mailed in due course. THIS		
1. \boxtimes This communication is responsive to <u>September 30, 2008</u> .				
2. The allowed claim(s) is/are 1, 4-17 (new claims 1-15).				
3. Acknowledgment is made of a claim for foreign priority ur	nder 35 U.S.C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some* c) ☐ None of the:				
 Certified copies of the priority documents have 	been received.			
2. Certified copies of the priority documents have	been received in Application No	·		
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the		
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO	-948) attached		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date				
(b) I including changes required by the attached Examiner's	s Amendment / Comment or in the O	Office action of		
Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the				
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT				
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal F	Patent Application		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary			
Paper No./Mail Date 3. 🛛 Information Disclosure Statements (PTO/SB/08), 7. 🗀 Examiner's Amendment/Comment				
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material				
•	9.			
/Thanh Tammy Nguyen/				
Examiner, Art Unit 2444				



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 2023

REASON FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

Mohaban et al (US 7,209,473 B1) A processor architecture for processing data packets representing voice over Internet Protocol (VoIP) calls in a packet-switched network is disclosed. According to an embodiment, a VoIP processor executes a voice packet processing operating system that is configured to monitor or manipulate the packets at an IP layer, media layer and signaling layer of the call. The VoIP processor executes one or more application programs that selectively call one or more of the primitive software functions and are independent of any underlying protocols of the existing network, thereby isolating the application programs from low-level processing details.

Lo et al (US 6,798,786 B1) A method and system of managing calls over a data network includes determining an available bandwidth of the data network. After a call request is received for establishing a call between at least two network terminals, one or more of a plurality of resource elements are selected in response to the call request based on the bandwidth of the data network. The resource elements, which can include codecs (coders/decoders), packet sizes (for carrying audio data), and others, are used in the requested call between the at least two network terminals. One or more usage threshold

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values may be assigned to a link or links between communities, and a call request is processed based on the one or more usage threshold values.

Krishnaswamy et al (US 6,909,708) Telephone calls, data and other multimedia information including video, audio and data is routed through a switched network which includes transfer of information across the internet. Users can participate in video conference calls in which each participant can simultaneously view the video from each other participant and hear the mixed audio from all participants. Users can also share data and documents with other video conference participants. Users can manage more aspects of a network than previously possible, and control network activities from a central site.

However, the prior art records, individually or in combination, fail to explicitly teach or render obvious that a method comprising:

reserving a Quality of Service (QoS) resource pool, wherein the QoS resource pool comprises a predetermined portion of available bandwidth between a first reservation protocol proxy and a second reservation protocol proxy, wherein the first reservation proxy represents a first network device coupled in communication with a packet network and associated with a first user community wherein the second reservation proxy represents and a second network device coupled in communication with the packet network and associated with a second user community for real-time communication sessions among users of the first user community and the second user community;

providing end-to-end application QoS between the first user community and the second user community by selectively admitting a plurality of real-time communication sessions between the first user community and the second user community based upon currently available resources associated with the QoS resource pool and multiplexing the plurality of real-time communication sessions over a common reservation protocol session between the first reservation proxy and the second reservation proxy;

wherein said reserving a predetermined portion of available bandwidth between the first reservation protocol proxy and the second reservation protocol proxy includes pre-allocating the reservation protocol session over a path through the packet network between the first network device and the second network device; and wherein the reservation protocol session comprises a Resource Reservation Protocol (RSVP) session, wherein the first network device and the second network device are part of a geographically distributed VoIP network, wherein the packet network comprises the VoIP network as set forth in independent claims 1, 10, and 11 (as disclosed in specification paragraphs 00099-000102, 000120-000124 and 000146-000148).

Dependent claims 4-9, and 12-17 further limit the allowed independent claims 1, 10, and 11; therefore, there are also allowed.

Any comments considered necessary by applicant must be submitted no latter than the payment of the issue fee, and avoid processing delays, should preferably accompany the issue fee. Such submission should be clearly labeled "Comments on Statement of Reason for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tammy T. Nguyen whose telephone number is 571-272-3929. The examiner can normally be reached on Monday - Friday 8:30 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, *William Vaughn* can be reached on 571-272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thanh Tammy Nguyen/ Examiner, Art Unit 2144 Application/Control Number: 10/701,017

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